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A method of immunizing against *Neisseria* comprising administering to a host an immunizing amount of an immunogenic composition comprising a polypeptide having an amino acid sequence of SEQ ID NO:2 or a fragment thereof, a polypeptide having an amino acid sequence of SEQ ID NO:4 or a fragment thereof, a polypeptide having an amino acid sequence of SEQ ID NO:14 or a fragment thereof, a polypeptide having an amino acid sequence of SEQ ID NO:16 or a fragment thereof, a polypeptide having an amino acid sequence of SEQ ID NO:25 or a fragment thereof and a pharmaceutically acceptable carrier, wherein the amino acid at residue 18 of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:14, SEQ ID NO:16 and SEQ ID NO:25 is an amino acid other than an ATC encoded isoleucine.

- $99_{100}$ . The method of claim 99, wherein the amino acid at residue 18 is tyrosine.
- 15 101. The method according to any one of claims 44-53b, further comprising an adjuvant.
- The method according to any one of claims 44-53b, further comprising one or more PorA polypeptides or proteins selected from the group consisting of SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18 and SEQ ID NO:20.
- An immunogenic composition according to any one of claims 42, 67,76 or 85, further comprising one or more ORF2086 protein antigens comprising an amino acid sequence of SEQ ID NO:26 through SEQ ID NO:83.